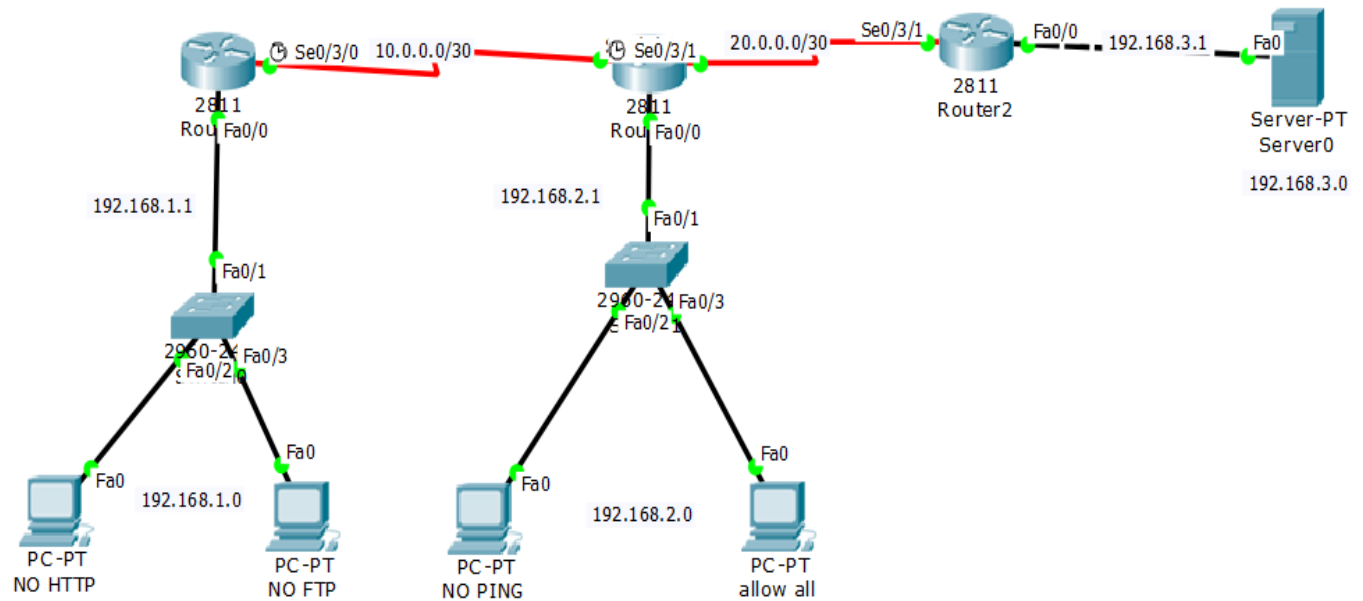# ACN Lab – 1 (Final)

Access Control List(FINAL)

(i) Assign IP

(ii) Do OSPF

(iii) Do ACL Extended

Command:

Router0   Router>en

Router0   Router#conf t

Router0   Router(config)#int f0/0

Router0   Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router0   Router(config-if)#no shutdown

Router0   Router(config-if)#exit

Router1   Router>en

Router1   Router#conf t

Router1   Router(config)#int f0/0

Router1   Router(config-if)#ip address 192.168.2.1 255.255.255.0

Router1 Router(config-if)#no shutdown

Router1 Router(config-if)#exit

Router2 Router>en

Router2 Router#conf t

Router2 Router(config)#int f0/0

Router2 Router(config-if)#ip address 192.168.3.1 255.255.255.0

Router2 Router(config-if)#no shutdown

Router2 Router(config-if)#exit

Router0 Router(config)#int se0/3/0

Router0 Router(config-if)#ip address 10.0.0.1 255.255.255.252

Router0 Router(config-if)#clock rate 64000

Router0 Router(config-if)#bandwidth 64

Router0 Router(config-if)#no shutdown

Router0 Router(config-if)#exit

Router1 Router(config)#int se0/3/0

Router1 Router(config-if)#ip address 10.0.0.2 255.255.255.252

Router1 Router(config-if)#no shutdown

Router1 Router(config-if)#exit

Router1 Router(config)#int se0/3/1

Router1 Router(config-if)#ip address 20.0.0.1 255.255.255.252

Router1 Router(config-if)#clock rate 64000

Router1 Router(config-if)#bandwidth 64

Router1 Router(config-if)#no shutdown

Router1 Router(config-if)#exit

Router2 Router(config)#int se0/3/1

Router2   Router(config-if)#ip address 20.0.0.2 255.255.255.252

Router2   Router(config-if)#no shutdown

Router2   Router(config-if)#exit

OSPF:

Router0   Router(config)#router ospf 10

Router0   Router(config-router)#network 192.168.1.0 0.0.0.255 area 0

Router0   Router(config-router)#network 10.0.0.0 0.0.0.3 area 0

Router0   Router(config-router)#exit

Router1   Router(config)#router ospf 10

Router1   Router(config-router)#network 10.0.0.0 0.0.0.3 area 0

Router1   Router(config-router)#network 192.168.2.0 0.0.0.255 area 0

Router1   Router(config-router)#exit

Router1   Router(config)#router ospf 10

Router1   Router(config-router)#network 20.0.0.0 0.0.0.255 area 0

Router1   Router(config-router)#exit

Router2   Router(config)#router ospf 10

Router2   Router(config-router)#network 192.168.3.0 0.0.0.255 area 0

Router2   Router(config-router)#network 20.0.0.0 0.0.0.3 area 0

Router2   Router(config-router)#exit

ACL-Extended:(Router1)

Router1   Router>en

Router1   Router#conf t

Router1   Router(config)#access-list 100 deny tcp host 192.168.1.2 192.168.3.2 0.0.0.255 eq 80   (NO HTTP)

Router1   Router(config)#access-list 100 deny tcp host 192.168.1.3 192.168.3.2 0.0.0.255 eq 21   (NO FTP)

Router1   Router(config)#access-list 100 deny icmp host 192.168.2.2 192.168.3.2 0.0.0.255 echo (NO PING)

Router1   Router(config)#access-list 100 permit ip any any

Router1   Router(config)#int se0/3/1

Router1   Router(config-if)#ip access-group 100 out

Router1   Router(config-if)#exit